

ABSTRACT OF THE DISCLOSURE

The states S0 to S9 in a state-transition table, which is a combination of (2, 7) RLL codes and a PR1 channel having a precoder, correspond to ten states defined by dividing each of the five states S0 to S4 in a state-transition table used to encode data into (2, 7) RLL codes. That is, the states S0 to S4 correspond to the cases where the immediately preceding NRZ code is "0" in the state-transition table of (2, 7) RLL codes, and the states S5 to S9 correspond to the cases where the immediately preceding NRZ code is "1" in the state-transition table of (2, 7) RLL codes. The present invention can be applied to recording/reproducing apparatuses.